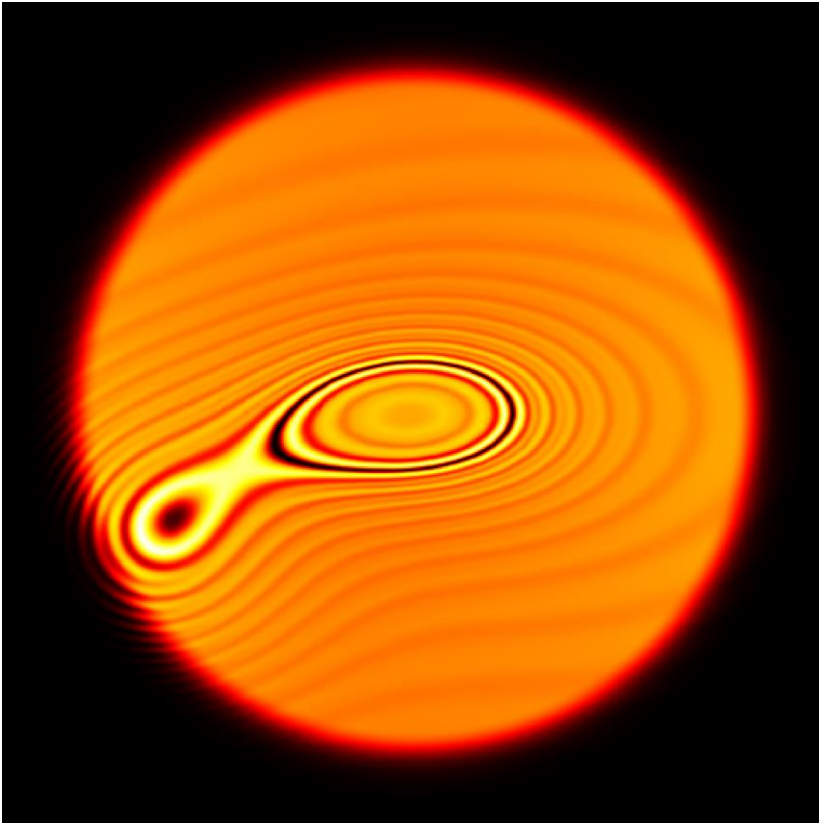


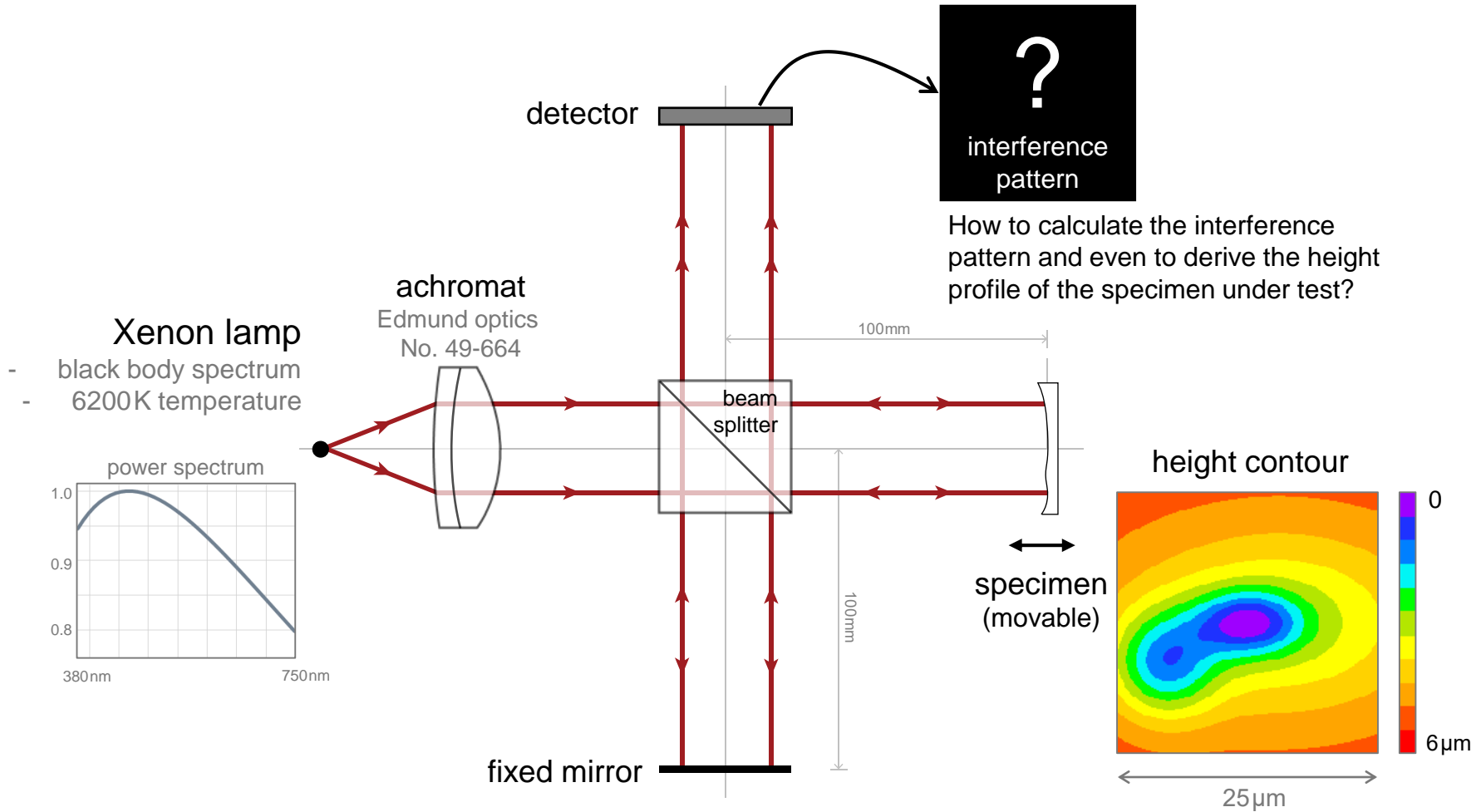
# Optical Topography Scanning Interferometry

# Abstract



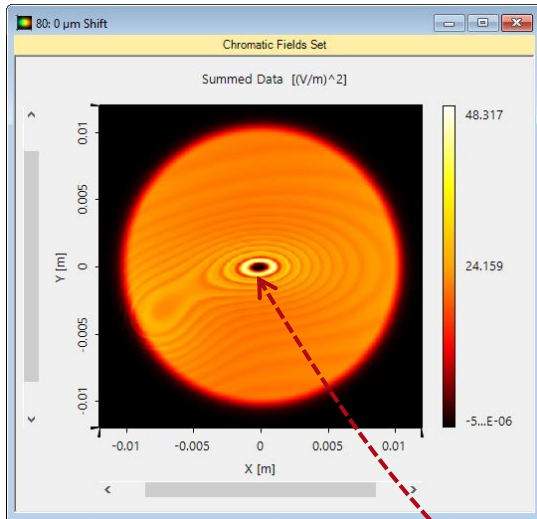
Scanning interferometry is the technique for performing surface height measurement. By exploiting the low coherence of white light source, interference pattern appears only when the path length difference is within the coherent length. Therefore, it enables precise microscopic measurement. Together with a Xenon lamp, a Michelson interferometer is built up and used to measure a specimen with smoothly varying front surface.

# Modeling Task

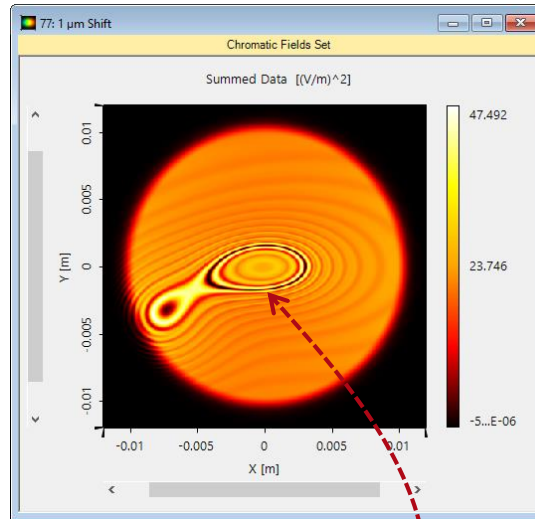


# Results

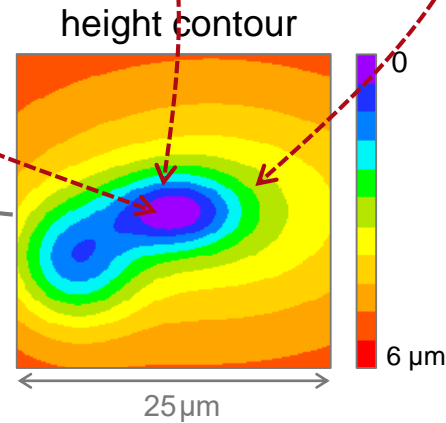
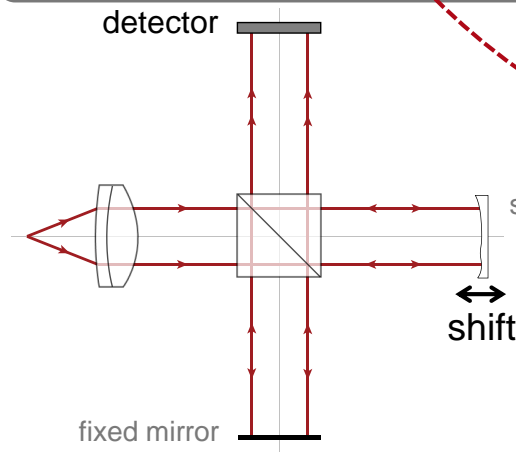
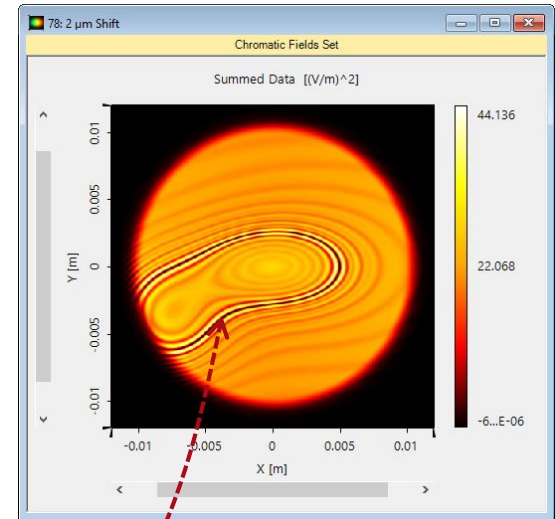
no shift of specimen



1 μm shift of specimen



2 μm shift of specimen



Contour lines of interference corresponds to the height contour of the specimen under test.

# Document Information

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|                                 |  |
|---------------------------------|--|
| title                           | Optical Topography Scanning Interferometry |
| version                         | 1.1  |
| VL version used for simulations | 7.4.0.45                                   |
| category                        | Application Use Case                       |

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